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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/037,219	11/09/2001	James B. Goddard	AES 107 P2	5658
75	90 11/16/2004		EXAMINER	
Finnegan, Henderson, Farabow,			COLLINS, GIOVANNA M	
Garrett & Dunn	er, L. L. P.			
1300 I Street, N	. W.		ART UNIT PAPER NUMBER	
Washington, DC 20005-3315		3672		
			DATE MAILED: 11/16/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	pplication No. Applicant(s)						
	10/037,219	GODDARD ET AL					
Office Action Summary	Examiner	Art Unit					
	Giovanna M. Collins	3672					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on <u>08 O</u>	<u>ctober 2004</u> .						
2a)⊠ This action is FINAL . 2b)□ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>18-29</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>25</u> is/are allowed.							
6)⊠ Claim(s) <u>18-24 and 26-29</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>25 April 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).					
1. Certified copies of the priority documents have been received.							
Certified copies of the priority documents	s have been received in Applicati	on No					
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau							
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20041008. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		O-152)				

Application/Control Number: 10/037,219 Page 2

Art Unit: 3672

DETAILED ACTION

1. The declaration filed on 10/8/2004 under 37 CFR 1.131 is sufficient to overcome the Tolliver ('882) reference.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 18-23 and 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goddard ('209) in view of Manuli ('897).

Goddard discloses in a corrugated pipe comprising two sections joined by telescopically mating a male end of one section with a female end of the other section, the improvement comprising an annular sealing element (60) fixed to the exterior surface of the male end and disposed to sealingly engage the interior surface of the female end; Goddard does not disclose an annular band of reinforcing material disposed around the exterior surface that is in general alignment with the sealing element. Manuli teaches (see Fig. 4) placing an annular band (25) of reinforcing material around an exterior surface that is in general alignment with a sealing element (17). Manuli teaches the annular band helps the sealing element maintain sealing engagement with two surfaces (see col. 5, lines 1-20). As it would be advantageous to maintain sealing engagement between the two pipe sections it would be obvious to one of ordinary skill in

Art Unit: 3672

the art to modify the pipe disclosed by Goddard to have the annular reinforcing band as taught by Manuli.

Referring to claim 19, Goddard discloses wherein the annular sealing element (60) is disposed in an annular channel in the outer surface of the male end.

Referring to claim 20, Goddard discloses wherein each section includes opposed male and female ends (18,20) and the outside pipe diameter of each section between its respective male and female ends is substantially the same.

Referring to claim 21, Goddard discloses wherein the outside diameter of the female end (20) of each section is substantially the same as the outside pipe diameter.

Referring to claim 22, Goddard discloses wherein the male end includes at least two corrugations (32,42) comprising at least two axially spaced, annular crests and an annular valley therebetween, the two crests defining the outside diameter of the male end, and wherein the annular channel (55) is formed in one of the crests.

Referring to claim 23, Goddard discloses wherein the outside diameter of the male end (18) is selected to permit mating and sealing engagement with the female end (20).

Referring to claim 26, Goddard discloses a corrugated pipe comprising two sections joined by telescopically mating a male end of one section with a female end of the other section, wherein the diameter of the female end (20) is substantially the same as the diameter of the corrugated pipe; and the male end (18) includes a corrugation having a recessed area (55) for accommodating an annular sealing element (60) for sealingly engaging an interior surface of the female end; and the corrugation height is such that the corrugation and the annular sealing element can be accommodated in the female end; the corrugated pipe section further comprising

Art Unit: 3672

Goddard does not disclose an annular band of reinforcing material disposed around the exterior surface of the female end. Manuli teaches (see Fig. 4) placing an annular band (25) of reinforcing material around an exterior surface that is at a position that allows the reinforcing material to retain sealing engagement between a female end and an annular sealing element (17) on a pipe end (17). As it would be advantageous to maintain sealing engagement between the two pipe sections it would be obvious to one of ordinary skill in the art to modify the pipe disclosed by Goddard to have the annular reinforcing band as taught by Manuli.

Referring to claim 27, Goddard discloses wherein the male end also includes a second corrugation (32) that can be accommodated in the female end.

Referring to claim 28, Goddard discloses wherein the female end (20) includes a distal end into which the male end is inserted, and a third corrugation (42) with a crest that extends radially outwardly at least as far as the distal end of the female end.

Referring to claim 29, Goddard discloses a corrugated pipe for accommodating fluid flow, the pipe consisting of a material that deforms in response to internal water pressure and including two sections joined by telescopically mating a male end of one section with a female end of the other section, the improvement comprising an annular sealing element (60) fixed to the exterior surface of the male end and disposed to sealingly engage the interior surface of the female end. Goddard does not disclose an annular reinforcement disposed around the exterior surface of the female end, the annular reinforcement having a width that is greater than the width of the sealing element and is disposed substantially upstream from the sealing element to resist loss of sealing engagement between the female end and the sealing element during use of the pipe. Manuli teaches (see Fig. 4) placing an annular reinforcing material (25) have a width

Application/Control Number: 10/037,219 Page 5

Art Unit: 3672

greater than the width of a sealing element (17) and is disposed substantially upstream for the sealing element. Manuli teaches the annular band helps the sealing element maintain sealing engagement with two surfaces (see col. 5, lines 1-20). As it would be advantageous to maintain sealing engagement between the two pipe sections it would be obvious to one of ordinary skill in the art to modify the pipe disclosed by Goddard to have the annular reinforcing band as taught by Manuli.

Claims 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goddard ('209) 2. in view of Manuli ('897) as applied to claim 22 above, and further in view of European Patent EP595742 to Courant.

Goddard, as modified, does not disclose an intermediate corrugation that has an outside diameter greater than the outside diameter of the male end. Courant teaches (see Fig. 10) a pipe having an intermediate corrugation (23a) that has an outside diameter greater than the outside diameter of a male end. Courant teaches the larger diameter of the intermediate corrugation allows the intermediate to have better engagement with the female end of a second pipe (see Fig. 11). As it would be advantageous for the two pipes being connected to have a good engagement with each other, it would be obvious to one of ordinary skill in the art to further modify the pipe disclosed by Goddard to have an intermediate corrugation that has an outside diameter greater than the outside diameter of the male end as taught by Courant.

Allowable Subject Matter

3. Claim 25 is allowed. Art Unit: 3672

Conclusion

4. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Giovanna M. Collins whose telephone number is 703-306-5707. The examiner can normally be reached on 6:30-3 M-F.

Application/Control Number: 10/037,219

Art Unit: 3672

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 703-308-2151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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> Supervisory Patent Examiner Technology Center 3670

Page 7